

WHAT IS CLAIMED IS

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1. A noise countermeasure determination method comprising the step of:

(a) obtaining an analyzing circuit judgement result by judging acceptability of the analyzing circuit based on a comparison of features of the analyzing circuit and transmission circuit topologies, and outputting an improvement proposal for making the analyzing circuit closer to one of basic types of the transmission circuit topologies depending on the analyzing circuit judgement result.

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2. The noise countermeasure determination method as claimed in claim 1, further comprising the steps of:

(b) calculating transmission characteristic values of the analyzing circuit based on calculation formulas depending on the judgement result of said step (a) and the transmission circuit topologies;

(c) obtaining a characteristic value judgement result by judging acceptability of the transmission characteristic values, based on judging values;

(d) analyzing an error cause by referring to an error cause file which indicates the error causes depending on error items, using the characteristic value judgement result; and

(e) selecting and outputting an improvement proposal by referring to an improvement proposal file which indicates improvement proposals depending on the error causes, using the error cause analyzed

by said step (d).

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3. The noise countermeasure determination method as claimed in claim 2, further comprising the steps of:

- 10 (f) analyzing a transmission waveform of the analyzing circuit using a waveform analyzing tool;
- (g) obtaining a waveform judgement result by judging acceptability of the transmission waveform, based on the judging values;
- 15 (h) analyzing the error cause by referring to the error cause file, using the waveform judgement result; and
- 20 (i) selecting and outputting an improvement proposal by referring to an improvement proposal file which indicates improvement proposals depending on the error causes, using the error cause analyzed by said step (h).

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4. The error countermeasure determination method as claimed in claim 1, further comprising the steps of:

- 30 (b) analyzing a transmission waveform of the analyzing circuit using a waveform analyzing tool;
- (c) obtaining a waveform judgement result by judging acceptability of the transmission waveform, based on judging values;
- 35 (d) analyzing an error cause by referring to an error cause file which indicates the error causes depending on error items, using the waveform judgement result; and

(e) selecting and outputting an improvement proposal by referring to the improvement proposal file, using the error cause analyzed by said step (d) .

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10 5. The noise countermeasure determination method as claimed in claim 1, further comprising the step of:

15 (b) judging the transmission circuit topology of the analyzing circuit, by referring to a circuit feature file which stores feature information used for judging the transmission circuit topology.

20 6. A noise countermeasure determination apparatus comprising:

25 circuit acceptability judging and output means for obtaining an analyzing circuit judgement result by judging acceptability of the analyzing circuit based on a comparison of features of the analyzing circuit and transmission circuit topologies, and outputting an improvement proposal for making the analyzing circuit closer to one of basic types of the transmission circuit topologies depending on the
30 analyzing circuit judgement result.

35 7. The noise countermeasure determination apparatus as claimed in claim 6, further comprising:
calculating means for calculating transmission

characteristic values of the analyzing circuit based on calculation formulas depending on the judgement result of said circuit acceptability judging and output means and the transmission circuit

5 topologies;

characteristic value judging means for obtaining a characteristic value judgement result by judging acceptability of the transmission characteristic values, based on judging values;

10 first error cause analyzing means for analyzing an error cause by referring to an error cause file which indicates the error causes depending on error items, using the characteristic value judgement result; and

15 first improvement proposal selecting and outputting means for selecting and outputting an improvement proposal by referring to an improvement proposal file which indicates improvement proposals depending on the error causes, using the error cause
20 analyzed by said first error cause analyzing means.

25 8. The noise countermeasure determination apparatus as claimed in claim 7, further comprising:
waveform analyzing means for analyzing a transmission waveform of the analyzing circuit using a waveform analyzing tool;

30 waveform judging means for obtaining a waveform judgement result by judging acceptability of the transmission waveform, based on the judging values;

second error cause analyzing means for analyzing the error cause by referring to the error
35 cause file, using the waveform judgement result; and

second improvement proposal selecting and outputting means for selecting and outputting an

improvement proposal by referring to an improvement proposal file which indicates improvement proposals depending on the error causes, using the error cause analyzed by said second error cause analyzing means.

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9. The error countermeasure determination
10 apparatus as claimed in claim 6, further comprising:
 waveform analyzing means for analyzing a
 transmission waveform of the analyzing circuit using
 a waveform analyzing tool;
 waveform judging means for obtaining a waveform
15 judgement result by judging acceptability of the
 transmission waveform, based on judging values;
 error cause analyzing means for analyzing an
 error cause by referring to an error cause file
 which indicates the error causes depending on error
20 items, using the waveform judgement result; and
 improvement proposal selecting and outputting
 means for selecting and outputting an improvement
 proposal by referring to the improvement proposal
 file, using the error cause analyzed by said error
25 cause analyzing means.

30 10. The noise countermeasure
determination apparatus as claimed in claim 6,
further comprising:
 topology judging means for judging the
transmission circuit topology of the analyzing
35 circuit, by referring to a circuit feature file
which stores feature information used for judging
the transmission circuit topology.

11. A computer-readable storage medium which stores a program for causing a computer to determine a noise countermeasure with respect to an analyzing circuit which is to be analyzed, said
5 program comprising:

a circuit acceptability judging and output procedure which causes the computer to obtain an analyzing circuit judgement result by judging acceptability of the analyzing circuit based on a
10 comparison of features of the analyzing circuit and transmission circuit topologies, and to output an improvement proposal for making the analyzing circuit closer to one of basic types of the transmission circuit topologies depending on the
15 analyzing circuit judgement result.

12. The computer-readable storage medium as claimed in claim 11, wherein said program further comprises:

a calculating procedure which causes the computer to calculate transmission characteristic
25 values of the analyzing circuit based on calculation formulas depending on the judgement result of said circuit acceptability judging and output means and the transmission circuit topologies;

a characteristic value judging procedure which
30 causes the computer to obtain a characteristic value judgement result by judging acceptability of the transmission characteristic values, based on judging values;

a first error cause analyzing procedure which
35 causes the computer to analyze an error cause by referring to an error cause file which indicates the error causes depending on error items, using the

characteristic value judgement result; and

a first improvement proposal selecting and
outputting procedure which causes the computer to
select and output an improvement proposal by
5 referring to an improvement proposal file which
indicates improvement proposals depending on the
error causes, using the error cause analyzed by said
first error cause analyzing means.

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13. The computer-readable storage medium
as claimed in claim 12, wherein said program further
15 comprises:

a waveform analyzing procedure which causes the
computer to analyze a transmission waveform of the
analyzing circuit using a waveform analyzing tool;

a waveform judging procedure which causes the
20 computer to obtain a waveform judgement result by
judging acceptability of the transmission waveform,
based on the judging values;

a second error cause analyzing procedure which
causes the computer to analyze the error cause by
25 referring to the error cause file, using the
waveform judgement result; and

a second improvement proposal selecting and
outputting procedure which causes the computer to
select and output an improvement proposal by
30 referring to an improvement proposal file which
indicates improvement proposals depending on the
error causes, using the error cause analyzed by said
second error cause analyzing means.

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14. The computer-readable storage medium as claimed in claim 11, wherein said program further comprises:

5 a waveform analyzing procedure which causes the computer to analyze a transmission waveform of the analyzing circuit using a waveform analyzing tool;

10 a waveform judging procedure which causes the computer to obtaining a waveform judgement result by judging acceptability of the transmission waveform, based on judging values;

15 an error cause analyzing procedure which causes the computer to analyze an error cause by referring to an error cause file which indicates the error causes depending on error items, using the waveform judgement result; and

20 an improvement proposal selecting and outputting procedure which causes the computer to select and output an improvement proposal by referring to the improvement proposal file, using the error cause analyzed by said error cause analyzing means.

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15. The computer-readable storage medium as claimed in claim 11, wherein said program further comprises:

30 a topology judging procedure which causes the computer to judge the transmission circuit topology of the analyzing circuit, by referring to a circuit feature file which stores feature information used for judging the transmission circuit topology.

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